

## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Boyd, Michael R.  
Gustafson, Kirk R.  
Shoemaker, Robert H.  
McMahon, James B.
- (ii) TITLE OF INVENTION: ANTIVIRAL PROTEINS AND PEPTIDES, DNA CODING SEQUENCES THEREFOR, AND USES THEREOF
- (iii) NUMBER OF SEQUENCES: 4
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Leydig, Voit & Mayer, Ltd.
  - (B) STREET: Two Prudential Plaza, Suite 4900
  - (C) CITY: Chicago
  - (D) STATE: IL
  - (E) COUNTRY: U.S.A.
  - (F) ZIP: 60601-6780
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US
  - (B) FILING DATE: 27-APR-1995
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Larcher, Carol
  - (B) REGISTRATION NUMBER: 35243
  - (C) REFERENCE/DOCKET NUMBER: 61037
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: (312)616-5600
  - (B) TELEFAX: (312)616-5700

## (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (ix) FEATURE:
  - (A) NAME/KEY: CDS
  - (B) LOCATION: 10..312

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CGATCGAAG	CTT	GGT	AAA	TTC	TCC	CAG	ACC	TGC	TAC	AAC	TCC	GCT	ATC	48		
	Leu	Gly	Lys	Phe	Ser	Gln	Thr	Cys	Tyr	Asn	Ser	Ala	Ile			
	1				5							10				
CAG	GGT	TCC	GTT	CTG	ACC	TCC	ACC	TGC	GAA	CGT	ACC	AAC	GGT	GGT	TAC	96
Gln	Gly	Ser	Val	Leu	Thr	Ser	Thr	Cys	Glu	Arg	Thr	Asn	Gly	Gly	Tyr	
	15					20							25			

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AAC ACC TCC TCC ATC GAC CTG AAC TCC GTT ATC GAA AAC GTT GAC GGT	144
Asn Thr Ser Ser Ile Asp Leu Asn Ser Val Ile Glu Asn Val Asp Gly	
30 35 40 45	
TCC CTG AAA TGG CAG CCG TCC AAC TTC ATC GAA ACC TGC CGT AAC ACC	192
Ser Leu Lys Trp Gln Pro Ser Asn Phe Ile Glu Thr Cys Arg Asn Thr	
50 55 60	
CAG CTG GCT GGT TCC TCC GAA CTG GCT GCT GAA TGC AAA ACC CGT GCT	240
Gln Leu Ala Gly Ser Ser Glu Leu Ala Ala Glu Cys Lys Thr Arg Ala	
65 70 75	
CAG CAG TTC GTT TCC ACC AAA ATC AAC CTG GAC GAC CAC ATC GCT AAC	288
Gln Gln Phe Val Ser Thr Lys Ile Asn Leu Asp Asp His Ile Ala Asn	
80 85 90	
ATC GAC GGT ACC CTG AAA TAC GAA TAACTCGAGA TCGTA	327
Ile Asp Gly Thr Leu Lys Tyr Glu	
95 100	

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Leu Gly Lys Phe Ser Gln Thr Cys Tyr Asn Ser Ala Ile Gln Gly Ser	
1 5 10 15	
Val Leu Thr Ser Thr Cys Glu Arg Thr Asn Gly Gly Tyr Asn Thr Ser	
20 25 30	
Ser Ile Asp Leu Asn Ser Val Ile Glu Asn Val Asp Gly Ser Leu Lys	
35 40 45	
Trp Gln Pro Ser Asn Phe Ile Glu Thr Cys Arg Asn Thr Gln Leu Ala	
50 55 60	
Gly Ser Ser Glu Leu Ala Ala Glu Cys Lys Thr Arg Ala Gln Gln Phe	
65 70 75 80	
Val Ser Thr Lys Ile Asn Leu Asp Asp His Ile Ala Asn Ile Asp Gly	
85 90 95	
Thr Leu Lys Tyr Glu	
100	

## (2) INFORMATION FOR SEQ ID NO:3:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

## (ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..327

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## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GAC	TAC	AAG	GAC	GAC	GAT	GAC	AAG	CTT	GGT	AAA	TTC	TCC	CAG	ACC	TGC	48
Asp	Tyr	Lys	Asp	Asp	Asp	Asp	Lys	Leu	Gly	Lys	Phe	Ser	Gln	Thr	Cys	
1				5					10					15		
TAC	AAC	TCC	GCT	ATC	CAG	GGT	TCC	GTT	CTG	ACC	TCC	ACC	TGC	GAA	CGT	96
Tyr	Asn	Ser	Ala	Ile	Gln	Gly	Ser	Val	Leu	Thr	Ser	Thr	Cys	Glu	Arg	
			20					25					30			
ACC	AAC	GGT	GGT	TAC	AAC	ACC	TCC	TCC	ATC	GAC	CTG	AAC	TCC	GTT	ATC	
144																
Thr	Asn	Gly	Gly	Tyr	Asn	Thr	Ser	Ser	Ile	Asp	Leu	Asn	Ser	Val	Ile	
		35					40					45				
GAA	AAC	GTT	GAC	GGT	TCC	CTG	AAA	TGG	CAG	CCG	TCC	AAC	TTC	ATC	GAA	192
Glu	Asn	Val	Asp	Gly	Ser	Leu	Lys	Trp	Gln	Pro	Ser	Asn	Phe	Ile	Glu	
	50					55				60						
ACC	TGC	CGT	AAC	ACC	CAG	CTG	GCT	GGT	TCC	TCC	GAA	CTG	GCT	GCT	GAA	240
Thr	Cys	Arg	Asn	Thr	Gln	Leu	Ala	Gly	Ser	Ser	Glu	Leu	Ala	Ala	Glu	
65					70				75					80		
TGC	AAA	ACC	CGT	GCT	CAG	CAG	TTC	GTT	TCC	ACC	AAA	ATC	AAC	CTG	GAC	288
Cys	Lys	Thr	Arg	Ala	Gln	Gln	Phe	Val	Ser	Thr	Lys	Ile	Asn	Leu	Asp	
				85				90					95			
GAC	CAC	ATC	GCT	AAC	ATC	GAC	GGT	ACC	CTG	AAA	TAC	GAA				327
Asp	His	Ile	Ala	Asn	Ile	Asp	Gly	Thr	Leu	Lys	Tyr	Glu				
			100				105									

## (2) INFORMATION FOR SEQ ID NO:4:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Asp	Tyr	Lys	Asp	Asp	Asp	Asp	Lys	Leu	Gly	Lys	Phe	Ser	Gln	Thr	Cys
1				5					10					15	
Tyr	Asn	Ser	Ala	Ile	Gln	Gly	Ser	Val	Leu	Thr	Ser	Thr	Cys	Glu	Arg
			20					25					30		
Thr	Asn	Gly	Gly	Tyr	Asn	Thr	Ser	Ser	Ile	Asp	Leu	Asn	Ser	Val	Ile
		35					40					45			
Glu	Asn	Val	Asp	Gly	Ser	Leu	Lys	Trp	Gln	Pro	Ser	Asn	Phe	Ile	Glu
	50					55				60					
Thr	Cys	Arg	Asn	Thr	Gln	Leu	Ala	Gly	Ser	Ser	Glu	Leu	Ala	Ala	Glu
65					70				75					80	
Cys	Lys	Thr	Arg	Ala	Gln	Gln	Phe	Val	Ser	Thr	Lys	Ile	Asn	Leu	Asp
				85				90					95		
Asp	His	Ile	Ala	Asn	Ile	Asp	Gly	Thr	Leu	Lys	Tyr	Glu			
			100				105								

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